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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	. CONFIRMATION NO.
10/789,355	02/27/2004	George Kukolj	13/083-3-D2	9062
28518 MICHAEL P. N	7590 03/13/2007 MORRIS	EXAMINER		
	INGELHEIM CORPO	LI, BAO Q		
900 RIDGEBUI P. O. BOX 368		ART UNIT	PAPER NUMBER	
RIDGEFIELD,	CT 06877-0368	1648		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	-	Application No.	Applicant(s)				
Office Action Summary		10/789,355	KUKOLJ ET AL.				
		Examiner	Art Unit				
		Bao Qun Li	1648				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 02 Fe	ebruary 2007.	<i>i</i>				
2a)□		action is non-final.					
3)□	· · · · · · · · · · · · · · · · · · ·						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)⊠	Claim(s) <u>9-11,14,16 and 17</u> is/are pending in th	ne application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
·	Claim(s) is/are rejected.						
	Claim(s) <u>9-11,14,16 and 17</u> is/are objected to.						
·	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	ion Papers						
	The specification is objected to by the Examine	•					
	The drawing(s) filed on is/are: a) acce		Evaminer				
.0)	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the correcti		• •				
11)	The oath or declaration is objected to by the Ex		•				
			7.00.017 01 701111 7 0 702.				
Priority under 35 U.S.C. § 119							
_	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)	a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
* 0	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. 3/12/2007.							
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:					

Application/Control Number: 10/789,355 Page 2

Art Unit: 1648

DETAILED ACTION

Response to Amendment

This is a response to the amendment filed on 02/202/07. Claims 9-10 have been amended. Claims 1-8, 12-13, 15 have been canceled. Claims 9-11, 14, 16 and 17 are pending and considered before the examiner.

Terminal Disclaimer (T.D)

The Terminal Disclaimer filed on Dec. 15, 2006 has been acknowledged and approved for entry.

Double Patenting

- 1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).
- 2. A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.
- 3. Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

1

Application/Control Number: 10/789,355 Page 3

Art Unit: 1648

4. The Terminal Disclaimer filed on Dec. 15, 2006 has been acknowledged and approved for entry. The obvious type double patenting issue of claims 9-11 and 14 over claims 1-8 of U.S. Patent No. 6,956,117B2 has been removed in view of the entered TD.

New ground rejection

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 6. Claims 9-11, 14, 16-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. In the instant case, claim 9 fails to define what the claimed polynucleotide structure of HCV replicon is. The information provided by the database as referred to the accession number can be changed at any time; accordingly, the cited mutation in the given Accession Number is changeable too. In this context, the molecular structure of the claimed polynucleotide of HCV replicon is not defined. Applicants are suggested to specify the molecular structure to which the claimed HCV self-replicating polynucleotide is made from by filing the particular sequence with a sequence identification number (SEQ ID NO). This affects the dependent claims 10-11 and 14.
- 8. Claims 16 and 17 are also rejected because they are writen in an impropriate dependent form since the claimed SEQ ID NO: 6 does not contain the mutation of G(2042)C cited in the independent claim 9. An appropriate correction is required.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Qun Li whose telephone number is 571-272-0904. The examiner can normally be reached on 6:30 am to 3:30 pm.

Art Unit: 1648

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bois quen Li Bao Qun Li

March 11, 2003

	Application No.	Applicant(s)					
	10.709.355						
Notice to Comply	Examiner	Art Unit					
	Bao Qun Li						
NOTICE TO COMPLY WITH REQU		APPLICATIONS					
CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES							
Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).							
The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):							
1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).							
2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).							
3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).							
4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."							
5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).							
☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).							
☑ 7. Other: Please prove the sequence listing information of the cited sequence Aj242651 in the specification and claim 9.							
Applicant Must Provide: ☑ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".							
An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.							
A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).							
For questions regarding compliance to these requirements, please contact:							
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